

Anti-TOM70 TOMM70 Antibody

Catalog Number: A09172

About TOMM70A

The translocase of outer mitochondrial membrane (TOM) complex is a multisubunit complex involved in the recognition, unfolding, and translocation of preproteins into the mitochondria. TOM70, an important member of the TOM complex, contains a tetratricopeptide repeat domain similar to those found in cytosolic chaperones such as Hsp90 and Hsc70 and provides a docking site for these proteins. This interaction is thought to be a critical first step in the TOM70-dependent mitochondrial import, followed by contact between the preprotein and TOM70. After targeting to TOM70, preproteins are translocated through the outer membrane via the TOM40 import pore complex. The precise mechanism of how preproteins progress from TOM70 to TOM40 to full translocation is still unclear.

Overview

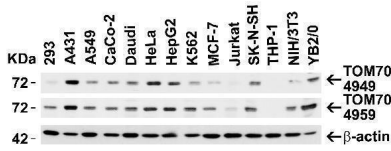
Product Name	Anti-TOM70 TOMM70 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TOM70 TOMM70 Antibody (Catalog # A09172). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	TOM70 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TOM70 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O94826

Technical Details

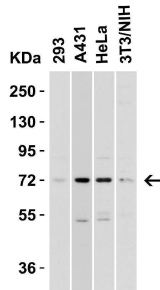
Immunogen	Anti-TOM70 antibody was raised against a peptide corresponding to 17 amino acids near the amino terminus of human TOM70. The immunogen is located within amino acids 50-100 of TOM70.
Predicted Reactive Species	Bovine
Cross Reactivity	At least two isoforms of TOM70 are known to exist; this antibody will only detect the larger isoform.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	TOM70 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 1-4 ug/mL; IHC: 2.5 ug/mL; IF: 20 ug/mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunohistochemistry and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

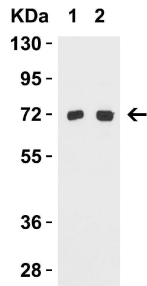
Anti-TOM70 TOMM70 Antibody (A09172) Images



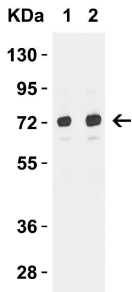
Independent Antibody Validation (IAV) via Protein Expression Profile in Human, Mouse and Rat Cell Lines Loading: 15 ug of lysates per lane. Antibodies: TOM70 A09172 (2 ug/mL), TOM70 4959 (2 ug/mL) and beta-actin (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



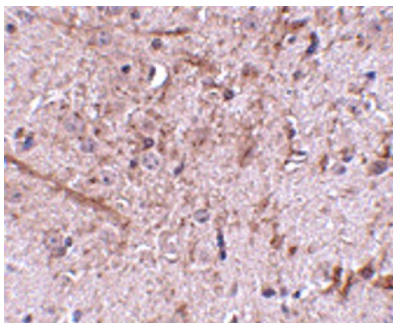
Western Blot Validation in Human and Mouse Cell Lines Loading: 15 ug of lysates per lane. Antibodies: TOM70 A09172 (2 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



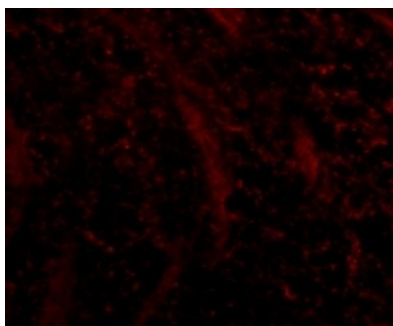
Western Blot Validation in Mouse Brain Loading: 15 ug of lysates per lane. Antibodies: TOM70 A09172 (Lane 1: 2 ug/mL and Lane 2: 4 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Rat Brain Loading: 15 ug of lysates per lane. Antibodies: TOM70 A09172 (Lane 1: 2 ug/mL and Lane 2: 4 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry Validation of TOM70 in Mouse Brain Tissue Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-TOM70 antibody (A09172) at 2.5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 °C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Validation of TOM70 in Mouse Brain Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse brain tissue labeling TOM70 with A09172 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

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